6682h0" 8EhT0E60

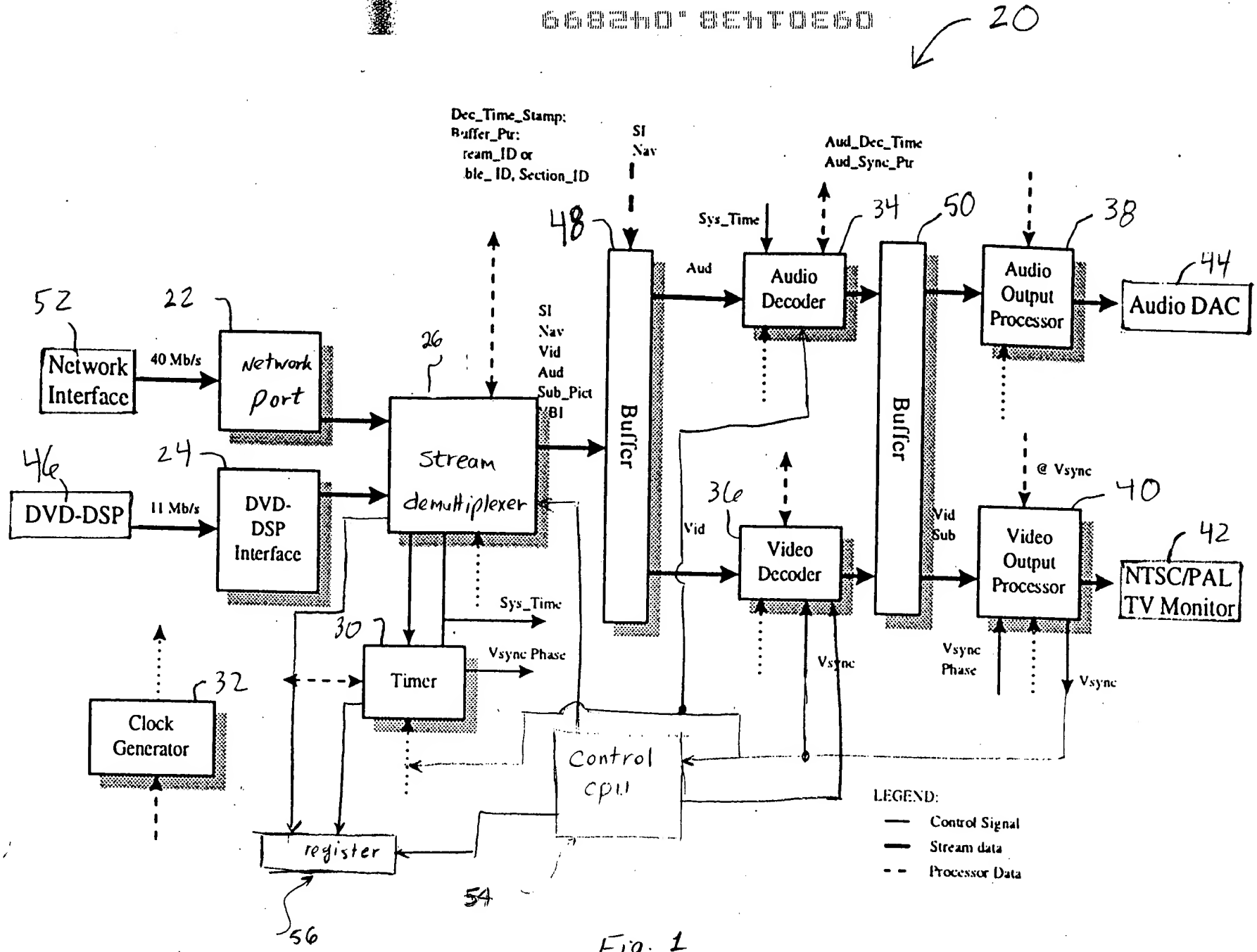


Fig. 1

Fig. 2A

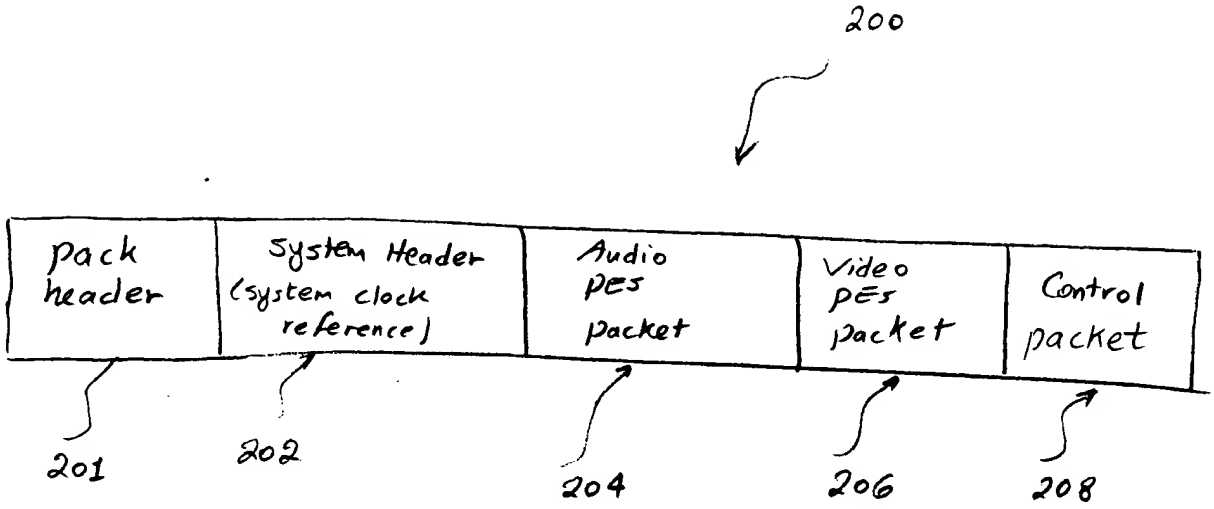


Fig. 2B

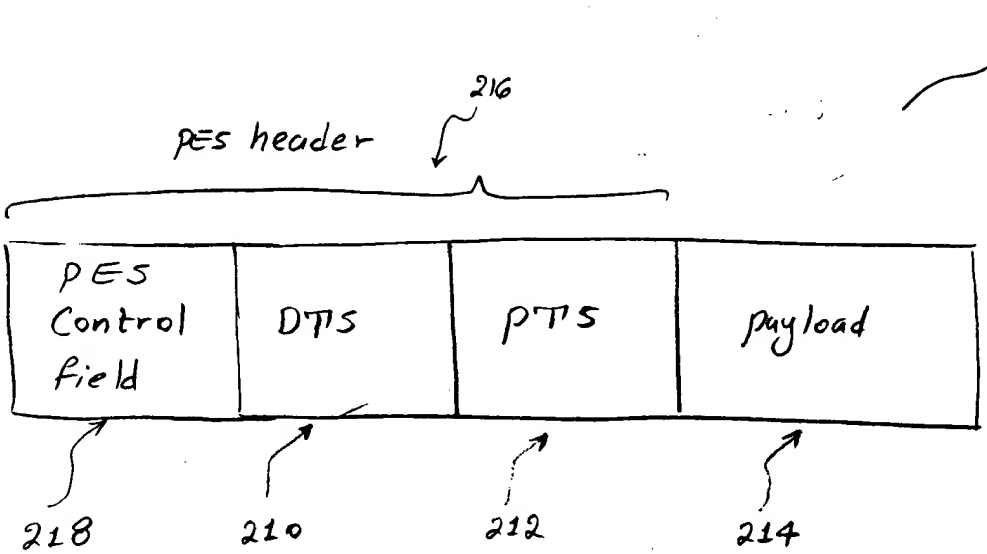
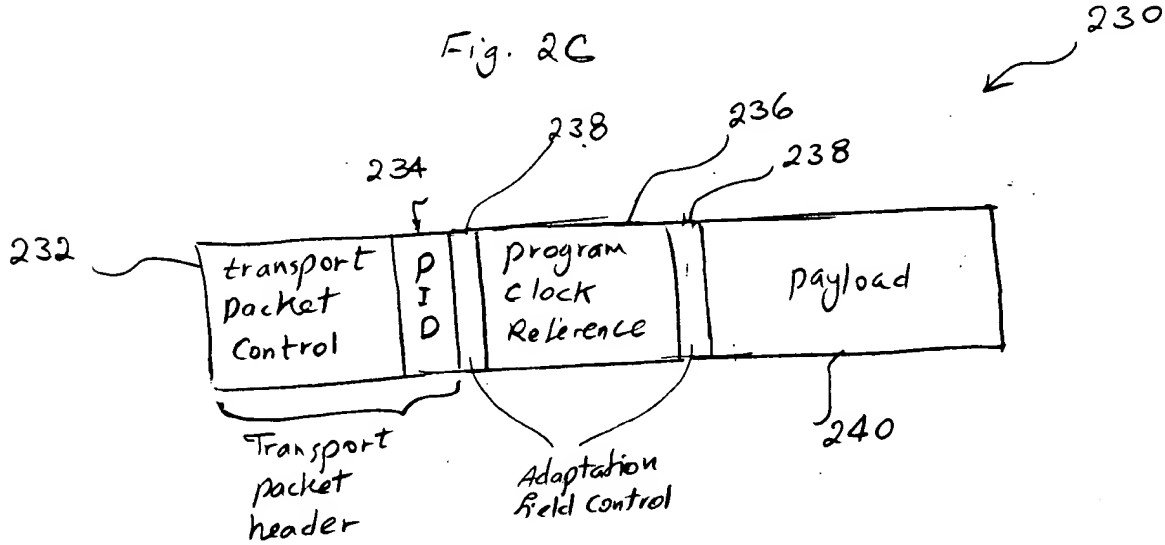


Fig. 2C



Format of a Task Definition Packet

Word offset	Data [31:0]
0	Address of picture to be decoded
1	picture size bits
2	picture control and Fcode Register bits
3-34	Quantizer Matrix Coefficients
35-39	Reserved

Fig. 3

0030f536.0ff0000

Audio Sync Word Message Format

bits [31:20]	bits [19:10]	bits [9:0]
[redacted]	SAMPRATE	NCHANS
[redacted]	INBUF_LEVEL	LAYER
[redacted]	FRM_SIZE	BITRATE
[redacted]	OUTBUF_WR_PTR	
[redacted]	INBUF_RD_PTR	
[redacted]	FRM_NUMBER	
[redacted]	STATUS	
[redacted]	MSG_TYPE = 3	MSG_ID = 0x100 - 0x1FF

Fig. 4

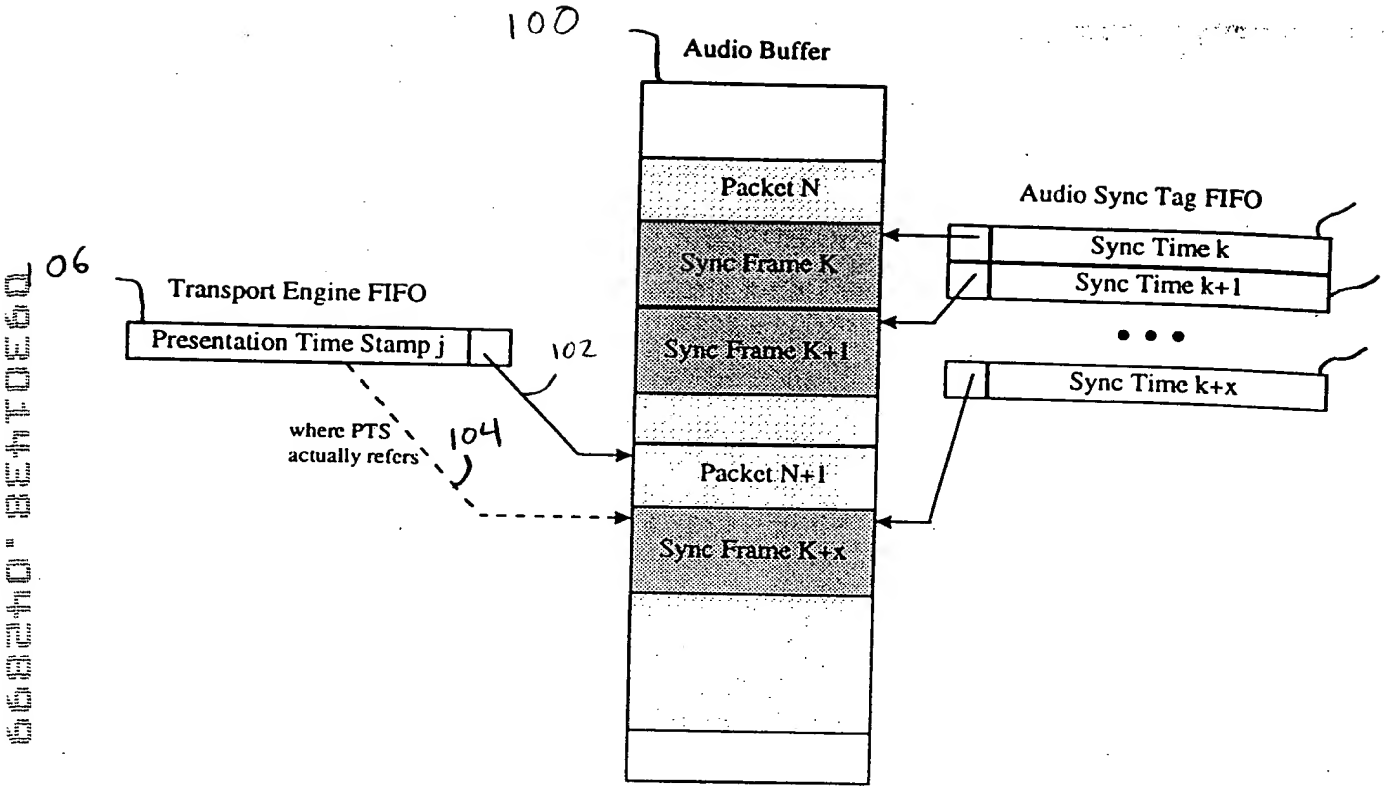

100
Audio Buffer
Packet N
Sync Frame K
Sync Frame K+1
Packet N+1
Sync Frame K+x
Audio Sync Tag FIFO
Sync Time k
Sync Time k+1
Sync Time k+x
106
Transport Engine FIFO
Presentation Time Stamp j
102
where PTS
actually refers
104

Fig. 5

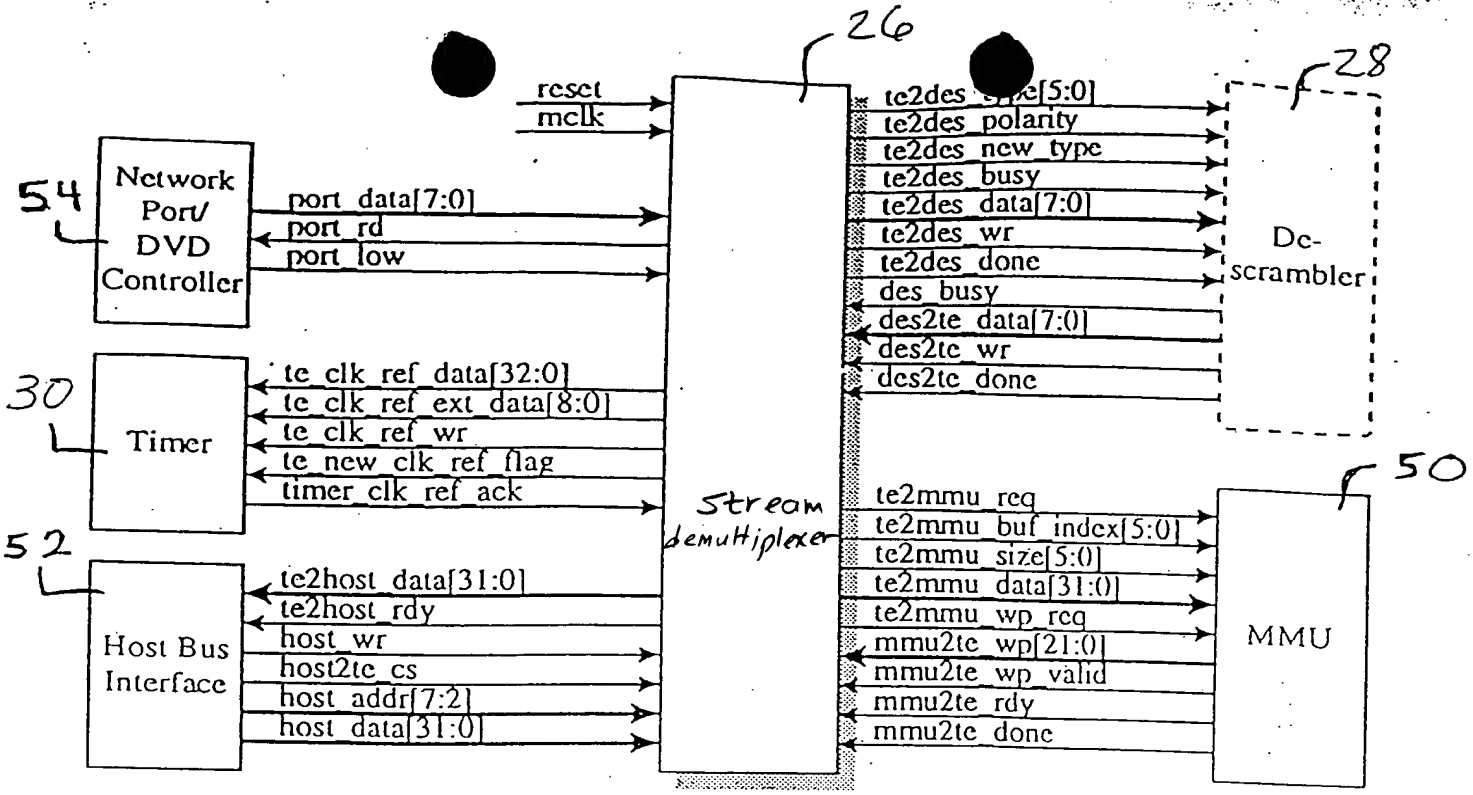

26
28
reset
mclk
54
Network Port/ DVD Controller
port_data[7:0]
port_rd
port_low
te2des_type[5:0]
te2des_polarity
te2des_new_type
te2des_busy
te2des_data[7:0]
te2des_wr
te2des_done
des_busy
des2te_data[7:0]
des2te_wr
des2te_done
De-scrambler
30
Timer
te_clk_ref_data[32:0]
te_clk_ref_ext_data[8:0]
te_clk_ref_wr
te_new_clk_ref_flag
timer_clk_ref_ack
Stream demuHiplexer
50
52
Host Bus Interface
te2host_data[31:0]
te2host_rdy
host_wr
host2te_cs
host_addr[7:2]
host_data[31:0]
te2mmu_req
te2mmu_buf_index[5:0]
te2mmu_size[5:0]
te2mmu_data[31:0]
te2mmu_wp_req
mmu2te_wp[21:0]
mmu2te_wp_valid
mmu2te_rdy
mmu2te_done
MMU

Fig. 6

t				
N	31:6			Reserved
	6:5	2	DTS	Valid DTS present 00 = no DTS 01 = DTS carried in PES 10 = DTS carried in DTS_next_AU field of transport packet 11 = reserved
	4:3	2	ERROR	Error Type 00, 01 = no error 10 = Transport Propagated Error 11 = Transport Continuity Error
	2:0	3	EVENT	Event Type 000 =Video Start Code 001 = Packet 010 = Substream Section 011 = Table Section 100-110 = reserved 111 = mid-stream error
N+1	31:27	5	BUFFER	The number of the buffer containing the event
	26:22	5	OFFSET	Offset from address of the event, modulo buffer length
	21:0	22	ADDRESS	The byte address of the event in the buffer, minus offset modulo buffer length
N+2	31:0	32	DATA_LO	Event Data Low. If EVENT is 000 - 10 : If DTS is 0 : bits [31:0] = reserved 1 : bits [31:0] = DTS[32:1] 011 :bits [31:0] = table header bytes 1, 2, 3, 4 100 - 111 : reserved
N+3	31:0	32	DATA_HI	Event Data High. If EVENT is 000 - 01 : bits [30:0] = reserved. If DTS is 0 : bits [31] = reserved 1 : bits [31] = DTS[0]
				010 : bits [23:0] = sub-stream header bytes 2, 3, 4 if Substream ID TYPE = 01 or 10. bits [7:1] = reserved If DTS is 0 : bit [31] = reserved 1 : bit [31] = DTS[0] 011 : bits [31:0] = table header bytes 5, 6, 7, 8 100 - 111: reserved

09504530 - 050303

Fig. 7

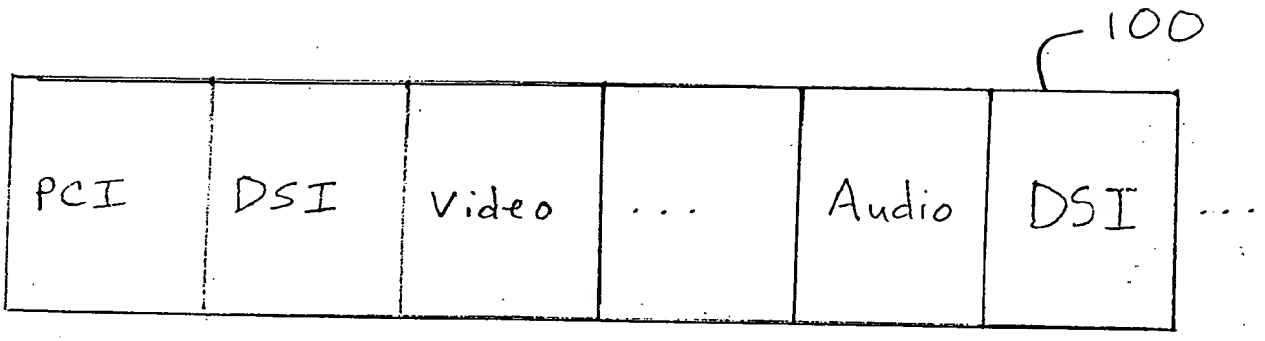


Fig. 8

0000000000-0000000000

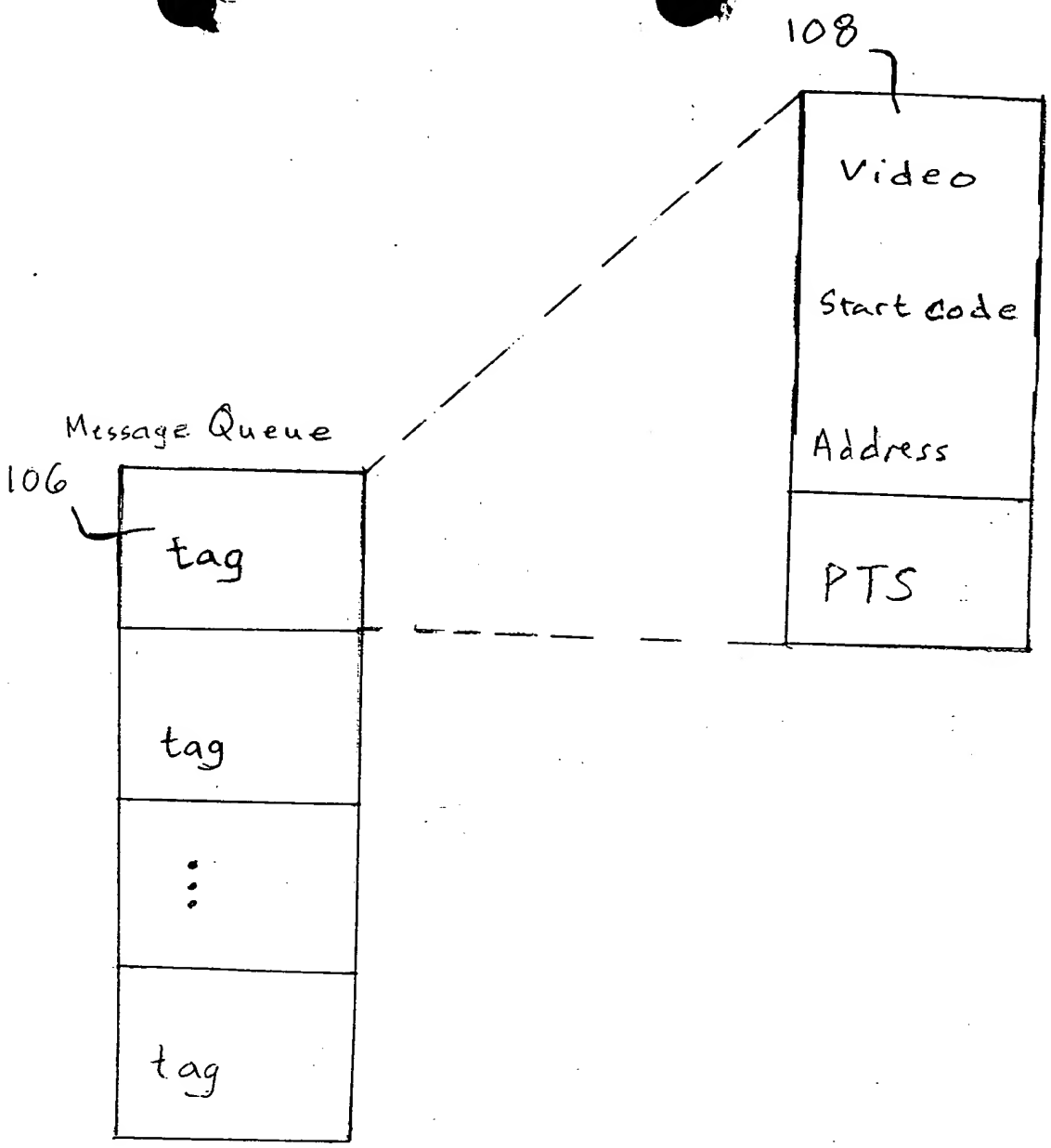

108
Video
Start code
Address
PTS
Message Queue
106
tag
tag
tag

Fig. 9